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Synchronous system for parallel data scrambling.

Of the type formed by a pseudorandom code generator and a block that performs the synchronizing and the scrambling in parallel which, in addition to the initialization signal, receives as inputs the set of parallel input data and the codes generated by the code generator, and produces the scrambled parallel data at the output.

The modulo-2 adders used in the feedback

loops of the pseudorandom code generator have only two inputs, and the outputs of the code generator in the parallel working time slots t_p and $t_p + 1$ are related through the expression:

$$C_{tp+1} = T^n(n \times n) \cdot C_{tp}$$

simplifying the result accordingly.

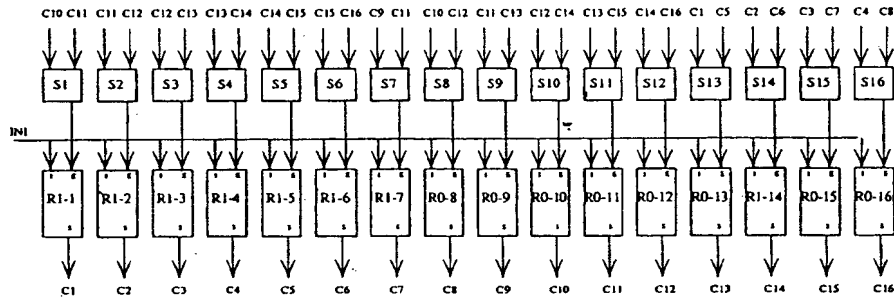


Fig. 2

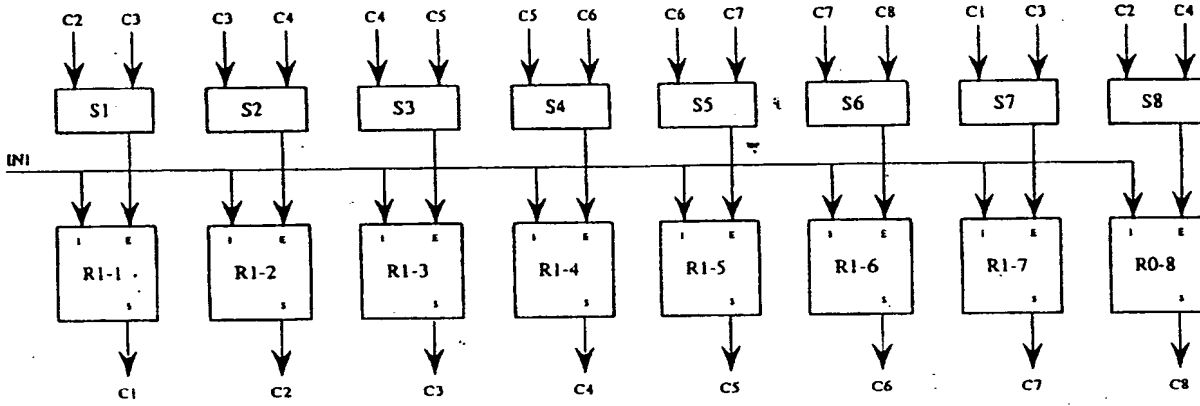


Fig. 3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number

EP 92 11 4268

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
X	EP-A-0 397 079 (ALCATEL N.V.) * page 2, line 4 - page 2, line 11 * * page 3, line 10 - page 3, line 16 * * page 5, line 50 - page 5, line 57 * * page 9, line 2 - page 9, line 24 * * page 11, line 5 - page 11, line 36 * ---	1-3	H04L25/49
X A	US-A-4 965 881 (DILLEY) * column 2, line 62 - column 3, line 64 * * column 5, line 40 - column 6, line 20 * ---	1 2,3	
A	IEEE JOURNAL OF SOLID-STATE CIRCUITS, VOL 24, NUMBER 3, JUNE 1989 pages 747 - 751 J. MCFARLAND '1-Gword/s Pseudorandom Word Generator' * page 747, left column, line 1 - page 747, left column, line 8 * * page 747, left column, line 24 - page 747, right column, line 5 * ---	1-3	
A	AT & T TECHNICAL JOURNAL, 1986 vol. 65, no. 5, NEW YORK US pages 123 - 136 DOOWHAN CHOI 'PARALLEL SCRAMBLING TECHNIQUES FOR DIGITAL MULTIPLEXERS' * page 123, right column, line 8 - page 123, right column, line 15 * * page 129, right column, line 15 - page 130, left column, line 10 * -----	1-3	TECHNICAL FIELDS SEARCHED (Int. Cl.5) H04L
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 26 FEBRUARY 1993	Examiner CANALI F.
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